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# NOTICE OF ALLOWANCE AND FEE(S) DUE

26646

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12/08/2010

KENYON & KENYON LLP ONE BROADWAY NEW YORK, NY 10004 EXAMINER

YEE, DEBORAH

ART UNIT PAPER NUMBER

1733

DATE MAILED: 12/08/2010

APPLICAT	ION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560	.989	12/14/2005	Toshiki Nonaka	52433/828	3742

TITLE OF INVENTION: HIGH STRENGTH STEEL SHEET EXCELLENT IN FORMABILITY AND METHOD FOR PRODUCING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/08/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

maintenance fee notifica	tions.	•					correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fee par	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
26646	26646 7590 12/08/2010					of Mailing or Trans	mission
KENYON & KENYON LLP ONE BROADWAY NEW YORK, NY 10004			I h Sta ado tra:	ereby certify that thi tes Postal Service w lressed to the Mail	s Fee( ith suf Stop	s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	deposited with the United t class mail in an envelope above, or being facsimile
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	3	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/560,989	12/14/2005	•	Toshiki Nonaka	•		52433/828	3742
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/08/2011
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
YEE, DE	EBORAH	1733	148-668000	_			
1. Change of corresponde CFR 1.363).	ence address or indication	n of "Fee Address" (37	1				
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	B/122) attached. lication (or "Fee Address'		(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
PTO/SB/47; Rev 03-0 Number is required.	02 or more recent) attach	ed. Use of a Customer	2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
		A TO BE PRINTED ON	THE PATENT (print or ty	pe)			
PLEASE NOTE: Unl	less an assignee is identi	ified below, no assignee	data will appear on the	patent. If an assigne	ee is id	entified below, the de	ocument has been filed for
(A) NAME OF ASSIG	•	diction of this form is NU	OT a substitute for filing ar (B) RESIDENCE: (CIT	· ·	OUNT	RY)	
(11) 111 111111111111111111111111111111			(B) ILLUIDEI (CII	i and strill on o	00111	,	
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent): $\Box$	Individual 🖵 Co	rporati	on or other private gro	oup entity 🔲 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Ple	ase first reapply an	y prev	iously paid issue fee :	shown above)
☐ Issue Fee			A check is enclosed.				
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
- Advance Order	iii of copies		overpayment, to Dep	osit Account Numbe	r	(enclose a	n extra copy of this form).
5. Change in Entity Sta	tus (from status indicated is SMALL ENTITY state	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lo	ngor claiming SMAI	I ENT	FITV status See 27 CI	FD 1.27(α)(2)
NOTE: The Issue Fee an	d Publication Fee (if requ	uired) will not be accepte	ed from anyone other than				e assignee or other party in
interest as shown by the	records of the United Sta	tes Patent and Trademark	k Office.				
Authorized Signature				Date			
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an application. Confiden submitting the completed this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the DNOT SEND FEES OR	on is required to obtain or 1.14. This collection is exy depending upon the indice Chief Information Office COMPLETED FORMS T	stimated to take 12 n vidual case. Any co er, U.S. Patent and 'O' THIS ADDRESS	ninutes mment Traden . SENI	to complete, including son the amount of tireark Office, U.S. Depart TO: Commissioner	g gathering, preparing, and g gathering, preparing, and up you require to complete urtment of Commerce, P.O. For Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/560,989	12/14/2005	Toshiki Nonaka	52433/828 3742		
26646 75	590 12/08/2010		EXAM	INER	
KENYON & KENYON LLP			YEE, DE	BORAH	
ONE BROADWAY			ART UNIT	PAPER NUMBER	
NEW YORK, NY	10004		1733		
			DATE MAILED: 12/08/2010		

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)** 

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 229 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 229 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/560,989	NONAKA ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Deborah Yee	1733				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
1. This communication is responsive to <u>Applicant's amendment</u>	THE GIVE TOTAL TO THOSE EZ TVO	<u> </u>				
<ol> <li>The allowed claim(s) is/are 1-4,6,7 and 10-18.</li> <li>Acknowledgment is made of a claim for foreign priority ur         <ul> <li>All b)</li></ul></li></ol>	been received. been received in Application cuments have been receive	on No d in this national stage application from the				
<ul> <li>THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.</li> <li>5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.</li> </ul>						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached						
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	1)  hereto or 2)  to Paper No./Mail Date					
<ul> <li>(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> </ul>						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☐ Information Disclosure Statements (PTO/SB/08),</li></ul>	6. ☐ Interview S Paper No. 7. ☑ Examiner's	formal Patent Application ummary (PTO-413), /Mail Date Amendment/Comment  Statement of Reasons for Allowance				
/Deborah Yee / Primary Examiner Art Unit: 1733						

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### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

- 2. This application is in condition for allowance except for the presence of claims 8 and 9 directed to the non-elected without traverse. Accordingly, claims 8 and 9 have been cancelled.
- 3. Title of application has been changed to recite HIGH STRENGTH STEEL SHEET EXCELLENT IN FORMABILITY --.
- 4. The following is an examiner's statement of reasons for allowance:

A high strength steel sheet composition whereby concentration of Si and Al in mass% and target strength (TS) of said steel sheet satisfy claimed expression <1> as follows:

(0.0012 x [target strength TS] – 0.29 – [Si]) /2.45 < Al < 1.5 -3 x [Si] and has a metallographic structure containing ferrite and martensite without retained austenite and exhibits a tensile strength of 980 MPa or more and a value of TS x EL of 16,000 or more, as forth in claims 1 to 4, 6, 7 and 10 to 18, is not taught or fairly suggested by the art of record for the reasons stated in Applicant's remarks filed November 22, 2010.

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5. As submitted by Applicant, steel composition of European patent 1154028 to Vrieze ("EP'028"), cited in the previous office action, does not overlap or closely approximate the presently claimed composition. EP'028 requires 0.35-0.5% Si, whereas claim 1 of present invention requires 0.107 to 0.3%. Applicant's lower Si range of no more than 0.3% is critical to avoid deterioration during chemical conversion coating treatment and hot-dip galvanization as evidenced by II.26-30 on page 7 and comparative test data in tables 1 and 2 of instant specification.

Page 3

- 6. In addition, Applicant has discovered by controlling the concentration in mass% of Al and Si and target strength in accordance with formula <1>, a high tensile strength steel compatible with chemical conversion treatment and hot-dip galvanizing while maintaining excellent elongation at lower Si, without restricting Mn and without requiring the addition of extra alloying elements is achieved. Present invention concept is not taught or suggested by EP'028.
- 7. As a matter of informality, IDS filed January 26, 2007 was not signed and dated by Examiner. Hence a corrected PTO-1449 is provided.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on monday-friday 6:00 am-2:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Yee/ Primary Examiner Art Unit 1733

/DY/